AMENDED CLAIMS

received by the International Bureau on 26 October 2004 (26.10.04) : original claims 21 to 29 replaced by
amended claims 21 to 29.

21.   The method of claim 1, further comprising if the called party sends an

acknowledgement message to a calling party in response to receiving the invite message,

moving at least one of the calling party and the called party to a new access point in a same IP

subnet, and adding the at least one of the calling party and the called party to the polling list

of the new access point.

22.   The method of claim 1, further comprising if the called party sends an

acknowledgement message to a calling party in response to receiving the invite message,

moving at least one of the calling party and the called party to a new access point in a

different IP subnet, adding the at least of one of the calling party and the called party to the

polling list of the new access point, and sending a re-invite message to at least one of the

calling party and the called party.

23.   The method of claim 22, wherein sending a re-invite message to at least one of

the calling party and the called party comprises sending a SIP RE-INVITE message to at least

one of the calling party and the called party.

24.   The method of claim 1, wherein sending packets to and receiving packets from

the calling party during a contention-free period of the access point comprises sending

packets to the access point, wherein the access point forwards the packets to at least one of

the called party and the calling party.

25.   The method of claim 24, wherein sending packets to the access point further comprises sending packets from the access point to a voice VLAN via a wireline network, wherein the wireline network is a switched network.

26.   The method of claim 25, wherein sending packets to the access point further comprises sending packets from the access point to a voice VLAN via a wireline network, wherein the wireline network is a switched ethernet.

27.   The method of claim 26, wherein sending packets from the access point to a voice VLAN via a wireline network further comprises sending packets from the access point to a voice VLAN via a wireline network using packet level quality-of-service techniques.

28.   The method of claim 27, wherein sending packets from the access point to a voice VLAN via a wireline network using packet level quality-of-service techniques comprises sending packets from the access point to a voice VLAN via a wireline network using Differentiated Services.

29.   A machine-readable medium having instructions stored thereon for execution by a processor to perform a method for providing quality-of-service to VoIP over a wireless local access network, comprising:

    sending an invite message from a calling party to a SIP proxy server;

    determining whether voice slots are available on an access point; and

    forwarding the invite message from the SIP proxy server to a called party, and

AMENDED SHEET (ARTICLE 19)